This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) An output engine operable to convert a file from a first format to a second format, the output engine comprising:

a decomposer operable to be called by a calling application and to receive a file and a desired file format from the calling application, the decomposer operable to decompose the file into a component architecture; and

a writer operable to call the decomposer multiple times to retrieve the component architecture of the file and generate a new version of the file in the second format.

- 2. (Original) An output engine as claimed in claim 1, further comprising a second writer operable to call the decomposer multiple times to retrieve the component architecture of the file and generate a new version of the file in a third format.
- 3. (Original) An output engine as claimed in claim 1, wherein the decomposer includes a job processor.
- 4. (Original) An output engine as claimed in claim 3, wherein the job processor is operable to load pages of the file and associate data with each page.
- 5. (Original) An output engine as claimed in claim 3, wherein the decomposer includes a writer interface.
- 6. (Original) An output engine as claimed in claim 5, wherein the decomposer includes a calling application interface.
- 7. (Original) An output engine as claimed in claim 3, wherein the writer includes a job processor interface.

8. (Currently Amended) An output engine as claimed in claim 7, operable to convert a file from a first format to a second format, the output engine comprising:

a decomposer operable to be called by a calling application and to receive a file and a desired file format from the calling application, the decomposer operable to decompose the file into a component architecture and make the component architecture available to a writer, the component architecture including objects included in the file; and

a writer operable to call the decomposer multiple times to retrieve the objects included in the file and generate a new version of the file in the second format, wherein the writer includes a layer processor, a collection processor, and an item processor.

- 9. (Original) An output engine as claimed in claim 8, wherein the writer includes a stack and an output module.
- 10. (Currently Amended) A method of converting an input file from a first format to a second format, the method comprising:

delivering a desired file format and the input file to a decomposer;

decomposing the input file into a component architecture in the decomposer, the

component architecture including properties of objects included in the input file; and

making the component architecture available to a writer; and

generating a new version of the input file in the second format by calling the decomposer multiple times from a writer to obtain the properties of the objects included in the input file.

11. (Original) A method of converting an input file as claimed in claim 10, the method further comprising:

sending the new version of the input file to a second writer; and generating a new version of the input file in a third format.

- 12. (Original) A method of converting an input file as claimed in claim 10, the method further comprising converting the input file from a fourth format to a common file format prior to delivering the input file to a decomposer.
- 13. (Currently Amended) A method of converting an input file having at plurality of pages and formatted in a first format to an output file formatted in a second format, the method comprising:

receiving a file conversion request from a calling application;

loading each page of the input file, one page at a time, in a decomposer;

associating data with one or more of the plurality of pages;

decomposing objects in each page into a component architecture, the component architecture including properties of objects included in the input file;

making the component architecture available to a writer;

driving each page to a writer; and

generating the output file by calling a decomposer multiple times from a writer in order to obtain the properties of objects included in the input file.

- 14. (Original) A method as claimed in claim 13, further comprising:executing a plurality of writers in a chained fashion.
- 15. (Original) A method as claimed in claim 13, further comprising sending the output file to a second writer; and generating a new version of the output file in a third format.

16. (Currently Amended) A method as claimed in claim 13, further comprising of converting an input file having a plurality of pages and formatted in a first format to an output file formatted in a second format, the method comprising:

receiving a file conversion request from a calling application;

loading each page of the input file, one page at a time, in a decomposer;

associating data with one or more of the plurality of pages;

determining layers, collections, and items in each page;

pushing the determined layers, collections, and items onto a stack; and

decomposing objects in each page into a component architecture, the component architecture including properties of objects included in the input file;

making the component architecture available to a writer;

driving each page to a writer;

assembling the determined layers, collections, and items into the output file; and

generating the output file by calling a decomposer multiple times from a writer in order to obtain the properties of objects included in the input file.

17. (Currently Amended) A file conversion system comprising:

a workstation having a source application, an output engine, and a document manager, the output engine including

a decomposer operable to be called by a calling application and to receive a file and a desired file format from the calling application, the decomposer operable to decompose the file into a component architecture, the component architecture including properties of objects included in the file; and

a writer operable to call the decomposer multiple times to retrieve the emponent architecture of properties of the objects included in the file and generate a new version of the file in the second format.

a form data database and a form database, each accessible to the workstation; and a server accessible to the workstation and having a document control and production engine.

- 18. (Original) A system as claimed in claim 17, wherein the output engine further comprises a second writer operable to call the decomposer multiple times to retrieve the component architecture of the file and generate a new version of the file in a third format.
- 19. (Original) A system as claimed in claim 17, wherein the decomposer includes a job processor.
- 20. (Original) A system as claimed in claim 19, wherein the job processor is operable to load pages of the file and associate data with each page.
- 21. (Original) A system as claimed in claim 19, wherein the decomposer includes a writer interface.

- 22. (Original) A system as claimed in claim 21, wherein the decomposer includes a calling application interface.
- 23. (Original) A system as claimed in claim 19, wherein the writer includes a job processor interface.
- 24. (Currently Amended) A <u>file conversion system system as claimed in claim 17, wherein</u> the writer includes a layer processor, a collection processor, and an item processor.comprising:

a workstation having a source application, an output engine, and a document manager, the output engine including

a decomposer operable to be called by a calling application and to receive a file and a desired file format from the calling application, the decomposer operable to decompose the file into a component architecture, the component architecture including objects included in the file; and

a writer operable to call the decomposer multiple times to retrieve the objects included in the file and generate a new version of the file in the second format, the writer including a layer processor, a collection processor, and an item processor.

a form data database and a form database, each accessible to the workstation; and
a server accessible to the workstation and having a document control and production
engine.

- 25. (Currently Amended) A system as claimed in claim <u>24-17</u>, wherein the writer includes a stack and an output module.
- 26. (Original) A system as claimed in claim 17, further comprising a converter accessible to the workstation and operable to convert files from a foreign format to a common format.

27. (New) A method of converting an input file from a first format to a second format, the method comprising:

delivering a desired file format and the input file to a decomposer;

decomposing the input file into a component architecture in the decomposer;

generating at least one data file, the at least one data file representing an aspect of a document;

generating an object model for the at least one data file, the object model having one or more objects;

making the object model for the at least one data file available to a writer; and generating a new version of the input file in the second format by calling the decomposer

28. (New) A method as claimed in claim 27, further comprising:

delivering a writer identifier to the decomposer;

multiple times from a writer.

selecting a writer based on the writer identifier; and

making the object model for the at least one data file available to the selected writer.

29. (New) A method as claimed in claim 27, wherein the input file includes a plurality of pages and the method further comprises loading each page of the input file and associating data with each page in a job processor.

30. (New) An output engine operable to convert a file from a first format to a second format, the output engine comprising:

a decomposer operable to be called by a calling application and to receive, from the calling application, a file, a desired file format, and a set of parameters used to set properties of a plurality of writers, the decomposer operable to decompose the file into a component architecture; and

a plurality of writers, each writer having an identifier and configured to be selected according to at least one of the set of parameters used to set properties of a plurality of writers, and to call the decomposer multiple times to retrieve the component architecture of the file and generate a new version of the file in the second format.